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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT: Eric J. Alexander et al.

SERIAL NO.: 10/776,708 GROUP ART UNIT:

FILED: February 11, 2004 EXAMINER:

FOR: Audio Speaker System Employing an Axi-Symmetrical Horn with Wide Dispersion Angle Characteristics Over an Extended Frequency Range

ATT'Y DOCKET: WIE-019

Honorable Commissioner of Patents and Trademarks
Washington, D.C. 20231

I hereby certify that this correspondence is being deposited on this day with the United States Postal Service as first class mail in an envelope addressed to : Commissioner of Patents and Trademarks, Washington, D.C. 20231.

Jay P. Sbrollini — June 29, 2004
Date
Reg. No. 36,266

Sir:

SUBMITTAL OF
DOCUMENTS PURSUANT TO DUTY OF DISCLOSURE

Pursuant to applicant's duty of disclosure 37 CFR Section 1.56, enclosed is a completed form PTOL-1449 which lists the documents relating to the above-referenced patent application. Since this document submittal is being presented prior to the first examination on the merits, no fee is due herewith.

The attached articles are as follows:

"The Quadratic-Throat Waveguide"; By John Murray; A White Paper On an Invention by Charles E. Huges of Peavey Electronics Corporation; 2000; describes different types of horns.

"Supplemental Technical Information for Model Thiel SCS3 Coherent Source Loudspeaker"; describes the specifications and mechanism.

"2404H Ultra-High Frequency Transducer"; UBL; describes the specifications of this particular model.

"Designing Your Own Horn"; melhuish.org; describes how to design your own horn.

"Tractroid" "Pseudosphere"; Wolfram Research; Eric W. Weisstein, 1999; describes the specifications of two spherical shapes.

"White Papers: Material - Part III"; Avantgarde; 2003-2004; describes the dimensions and components of this horn system.

"Horn Design"; ldsg.snippets.org; 9/30/2003; describes a horn design.

"The Limitations of Wide Dispersion"; Atlas Sound; 2001; describes the dispersion of sound.

"Two-Way 12" Complex Conic Loudspeaker Systems"; Renkus-Heinz; TRC121K Series; describes the specifications of this sytem.

"The Specification of Moving-Coil Drivers for Low-Frequency Horn-Loaded Loudspeakers"; by W. Marshall Leach, Jr.; AES an Audio Engineering Society Preprint; 1978; describes the specifications of this system.

"Constant Directivity Sound Reinforcement"; Horn Technology; by Clifford Pereira; www.studio-systems.com; describes the shapes and its relation to sound frequencies.

"3-Way Active Speaker System"; Fusion 3000; Mackie; describes the specifications and design.

"Speakers: Coverage Pattern"; www.soundinstitute.com; describes speaker technologies.

"Speakers"; www.uwosh.edu; describes in detail the mechanism, design and sound of speakers.

"Produce music with thousands of loops and effects"; The Pro Audio Network; Digital Pro Sound; 2000; describes speakers' placement and sound mechanism.

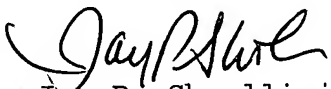
"Horn Loudspeakers, How & Why"; 21st Tone; Avantgarde; by Holger Fromme; 1998; describes the components, sound, physics, function and technology.

"Sound Systen Design Reference Manual", JBL Professional; 1999; describes the entire sound system and technical components.

The listed documents are brought to the Examiner's attention because they are known to the applicant and/or the applicant's attorney and may be considered by the Examiner to be material to his/her examination. This listing should not be construed as representation that a search has been made or that no better art exists. No inference should be made that the documents are in

fact material merely because they are referenced herein. Moreover, no representation is made that the brief descriptions of the references herein necessarily describe the most material aspects of the references. Further, by this listing, the applicant is not making any admission regarding the relative dates of the invention and listed disclosures.

Respectfully submitted,



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	Applicant Eric J. Alexander et al.		
	Filed 02/11/04	Group	

US PATENT DOCUMENTS

Examiner Initials		Document No.	Date	Name	Class	Subclass	Filing date if approp.
	A	6,574,344	06/03/03	Wiener et al.	381	343	
	B	5,894,524	04/13/99	Kotsatos et al.	381	397	
	C	5,750,943	05/12/98	Heinz	181	152	
	D	5,742,696	04/21/98	Walton	381	156	
	E	5,673,329	09/30/97	Wiener	381	160	
	F	5,602,930	02/11/97	Walton	381	192	
	G	5,306,880	04/26/94	Coziar et al.	181	149	
	H	4,348,549	09/07/82	Berlant	179	1	
	I						
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EXAMINER	DATE CONSIDERED

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	Filed 02/11/04	Group

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)		
		"Supplemental Technical Information for Model THIEL SCS3; Coherent Source Loudspeaker
		"Ultra-High Frequency Transducer 2404H" Specifications JBL; 10/96
		"The Quadratic-Throad Waveguide" ; a white paper on an invention by Charles E. Hughes; Peavey Electronics Corporation; by John Murray; 2000
		"Designing your own horn"; Horn Design.htm; melhuish.org
		"Tractroid" "Pseudosphere"; Mathworld.wolfram.com; Eric W. Weisstein; 1999-2003
		"White Papers: Material - Part III"; Avantgarde White Papers; www.avantgarde-usa.com; 2003-2004
		"Horn Design"; ldsg.snippets.org; 9/30/03
		"The Limitations of Wide Dispersion"; Atlas Sound, Ennis, Texas; 2001
		"Two-Way 12" Complex Conic Loudspeaker Systems"; Renkus-Heinz; TRC121K Series;
		"On the Specification of Moving-Coil Drivers for Low-Frequency Horn-Loaded Loudspeakers"; AES An Audio Engineering Society Preprint; by W. Marshall Leach, Jr.; presented at the 61st Convention November 3-6, 1978, New York
		"Constant Directivity Sound Reinforcement"; Horn Technology; by Clifford Pereira; www.studio-systems.com; 1998
		"Fussion 3000"; Mackie; 3-Way Active Speaker System; 1999-2000
		"Speakers: Coverage Patterns"; Huisinga and Olsen Publishing; www.soundinstitute.com; 2003
		"Speakers"; www.uwosh.edu; 10/17/2003

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INFORMATION DISCLOSURE CITATION PAGE 3 OF 3	Atty Docket No. WIE-019	Serial No. 10/776,708
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)		
		"Produce Music with Thousands of Loops and Effects"; The Pro Audio Network; Digital Pro Sound; 2000
		"Horn Loudspeakers, How & Why"; by Holger Fromme; AvantGarde; 1998
		"Sound System Design Reference Manual"; JBL Professional; 1999

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